

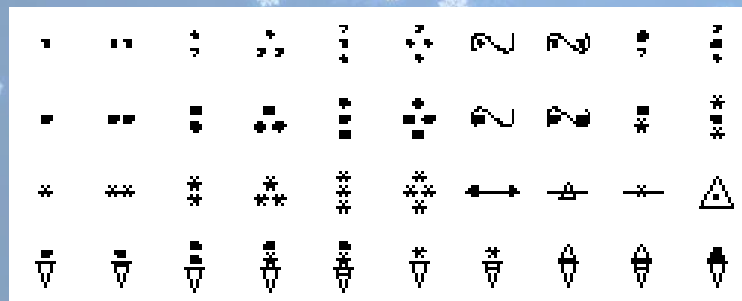
# **Tuesday, April 17, 2013**

## **National Weather Service DLH (Duluth, MN)**

### **Weather Briefing**

## **"A Springtime Bouquet of Weather"**

Carol Christenson, Warning Coordination Meteorologist

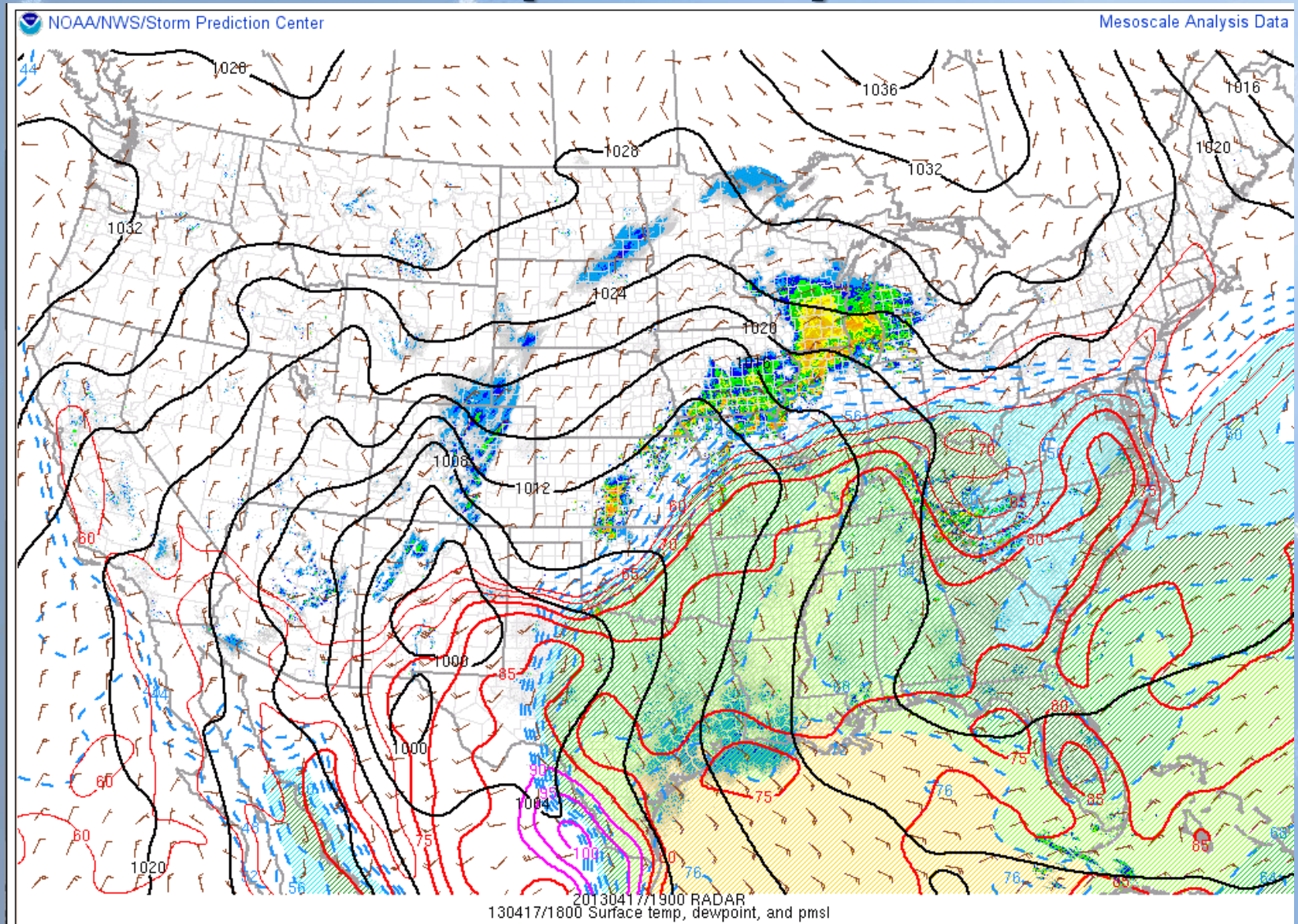


# A Long/Persistent Event

- This Evening through Friday
- Some rain and rain/snow mix across east central MN and northwest WI.
- Freezing rain? **YES!** Northwestern Wisconsin
- Then all snow Thursday through Friday
- Confidence level- for precipitation types- good for most of northern MN/ but still tricky in NW WI.

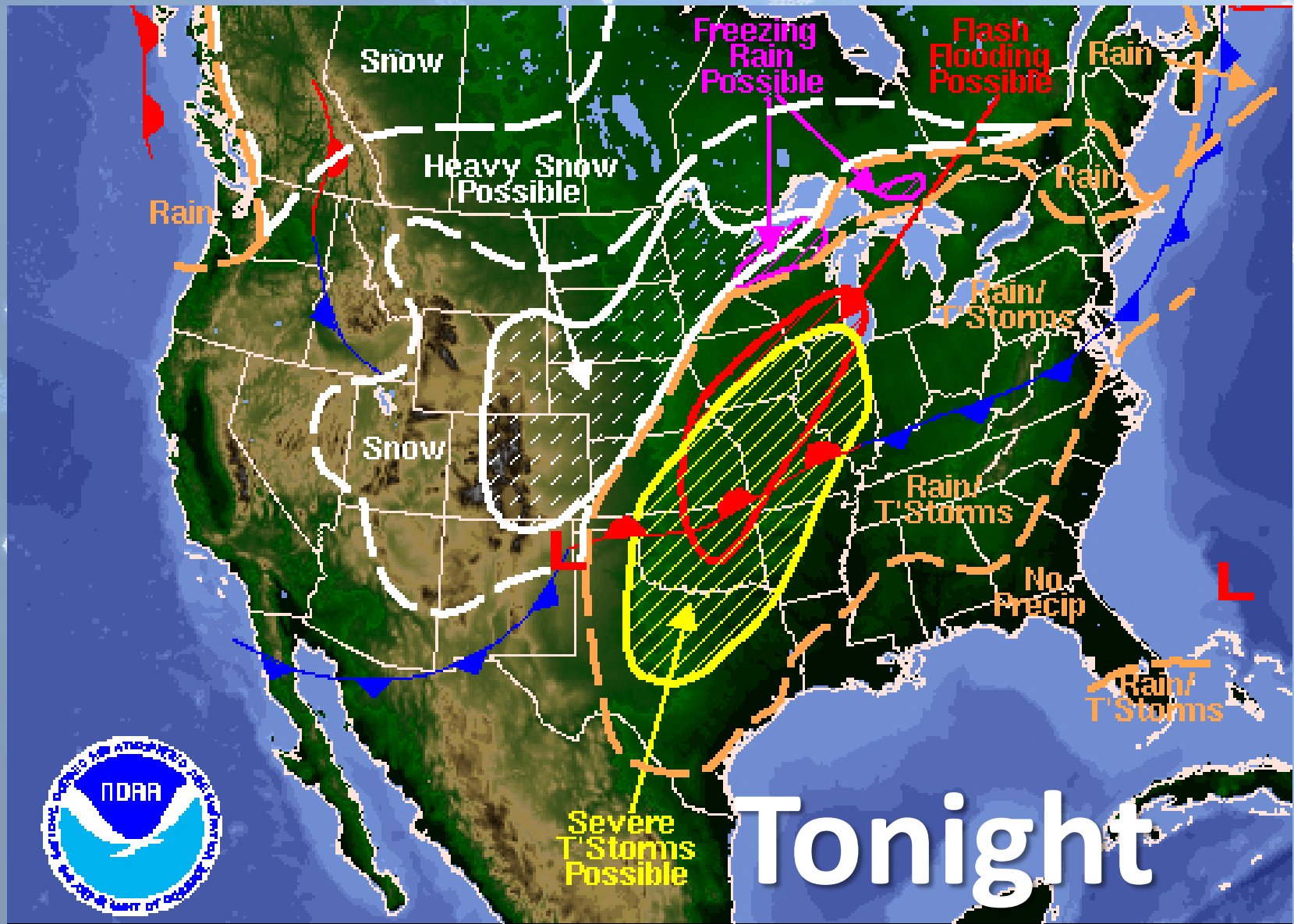


# 2 pm Today

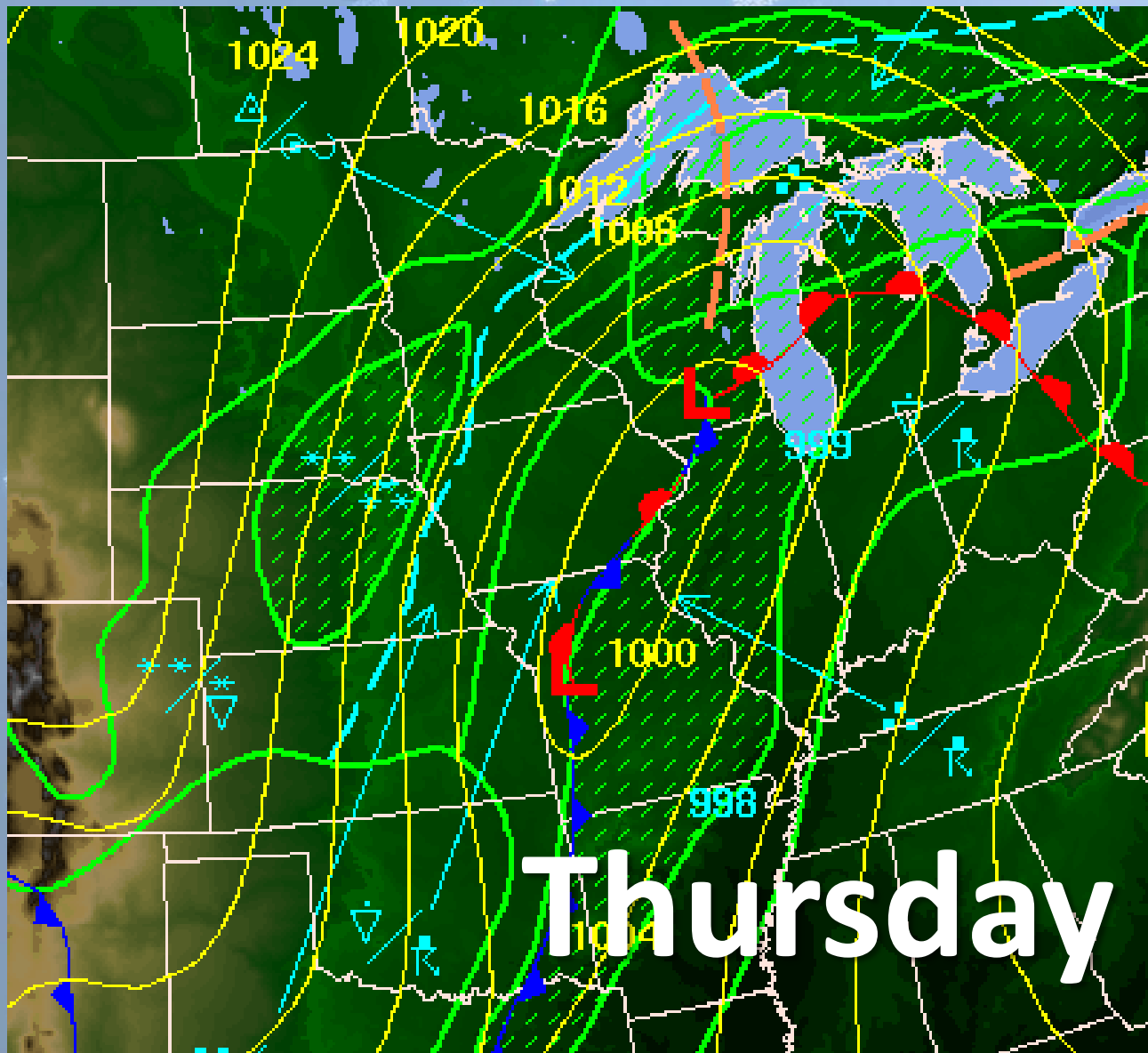


Sfc pressure, temp in red, dew point in blue, radar

# A Long-lived Winter Storm

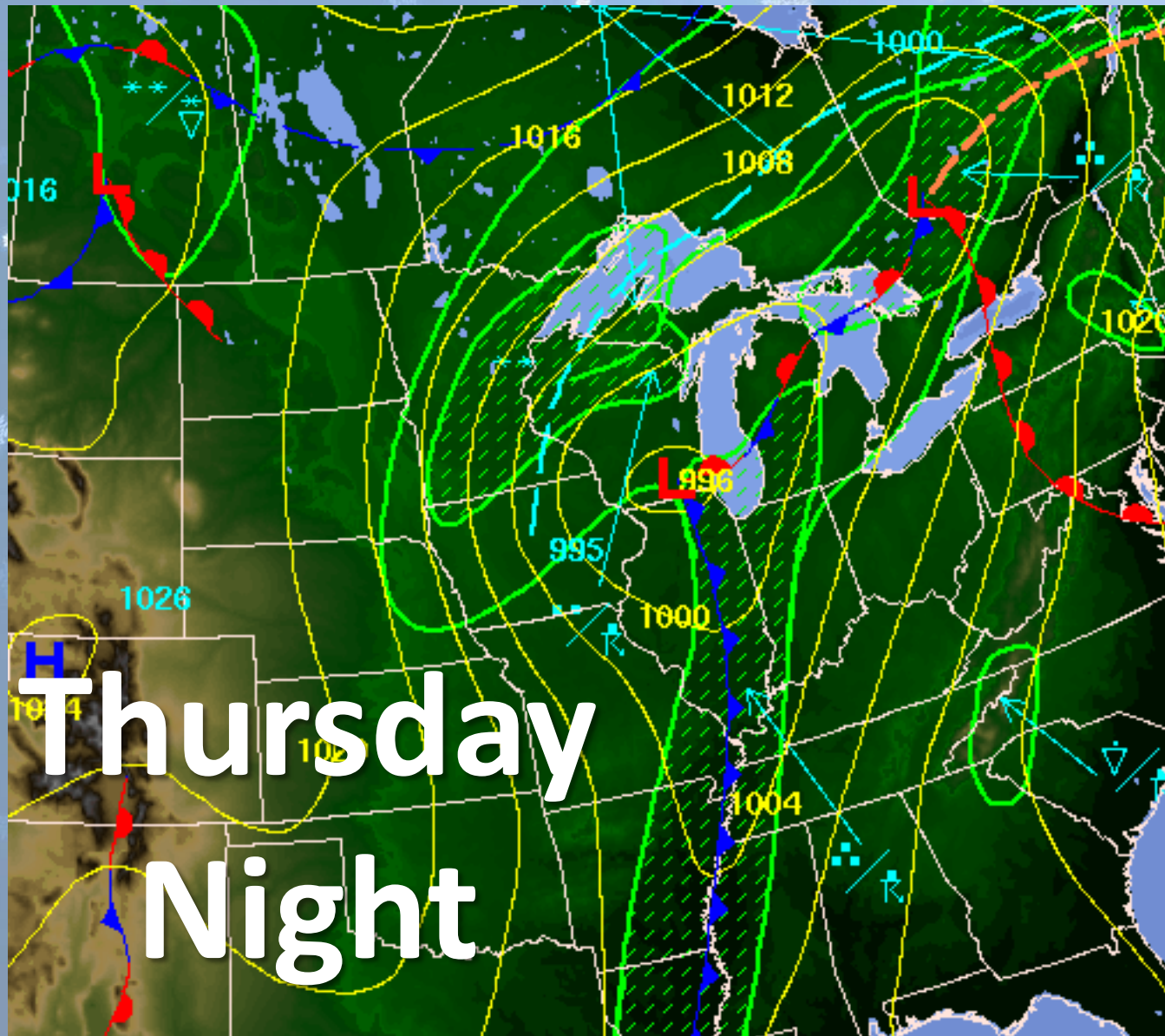


# A Long-lived Winter Storm



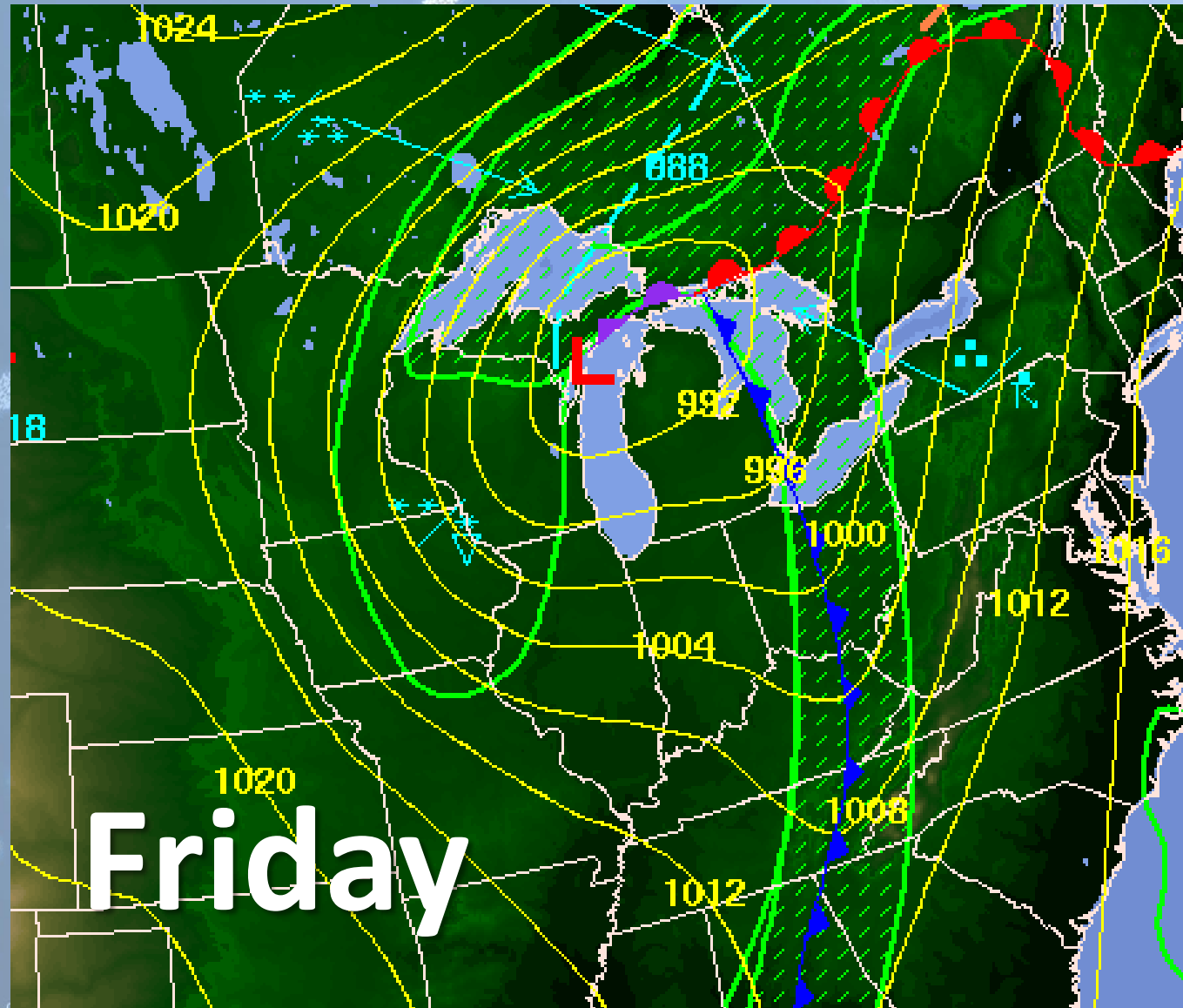


# A Long-lived Winter Storm



Thursday  
Night

# A Long-lived Winter Storm



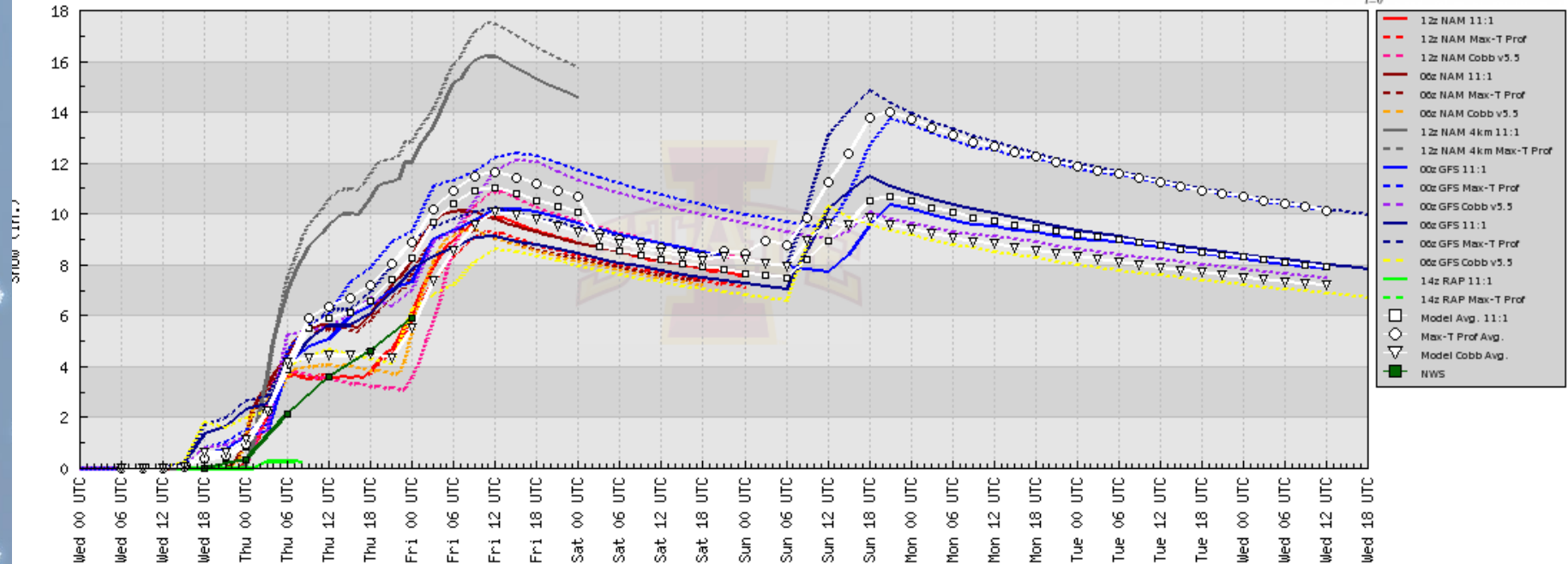
# A Long-lived Winter Storm

Start: 2013-04-17 00:00:00 UTC  
End: 2013-04-24 18:00:00 UTC  
Generated: 2013-04-17 16:29:08 UTC

KDLH - Accumulated Snowfall Forecast (with compaction)

$$SA_h = \sum_{i=0}^h QPF_i \times SF$$

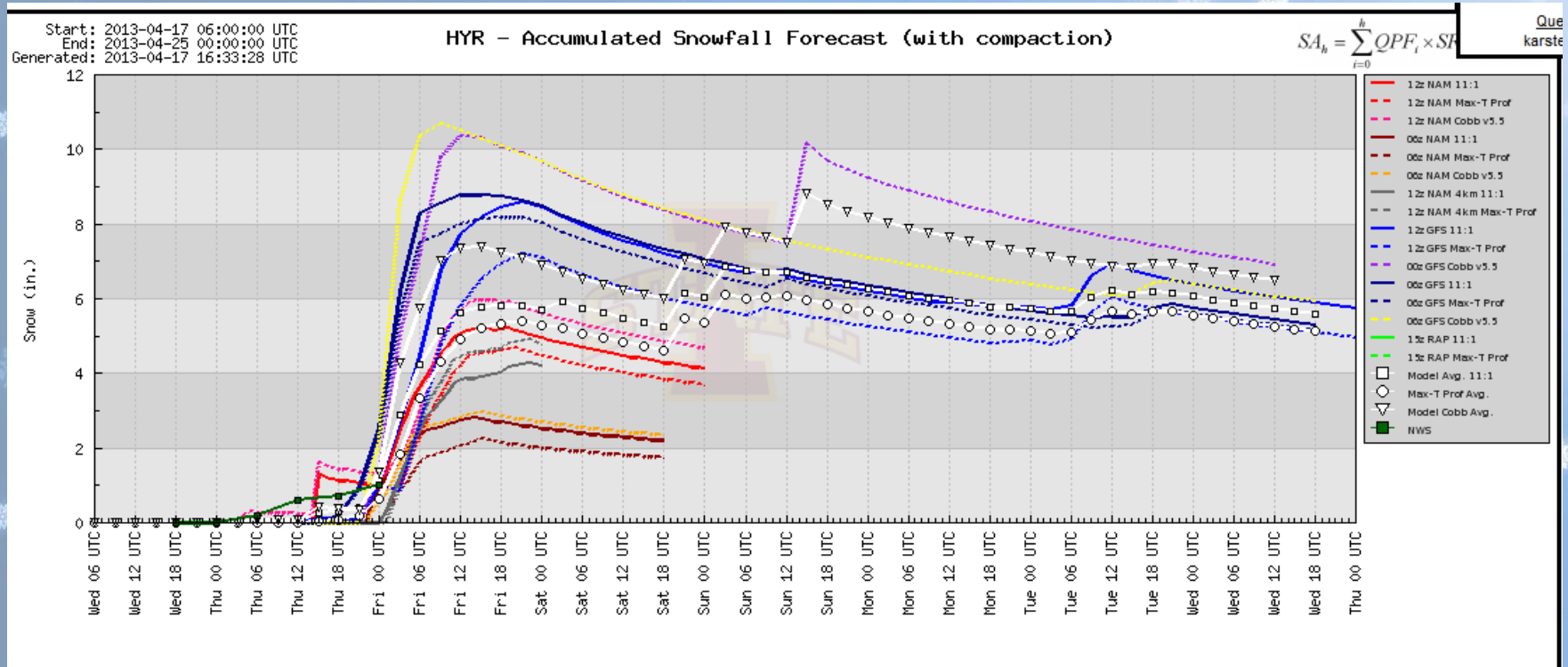
Qu  
kars



Snowfall forecast model comparison for Duluth



# A Long-lived Winter Storm

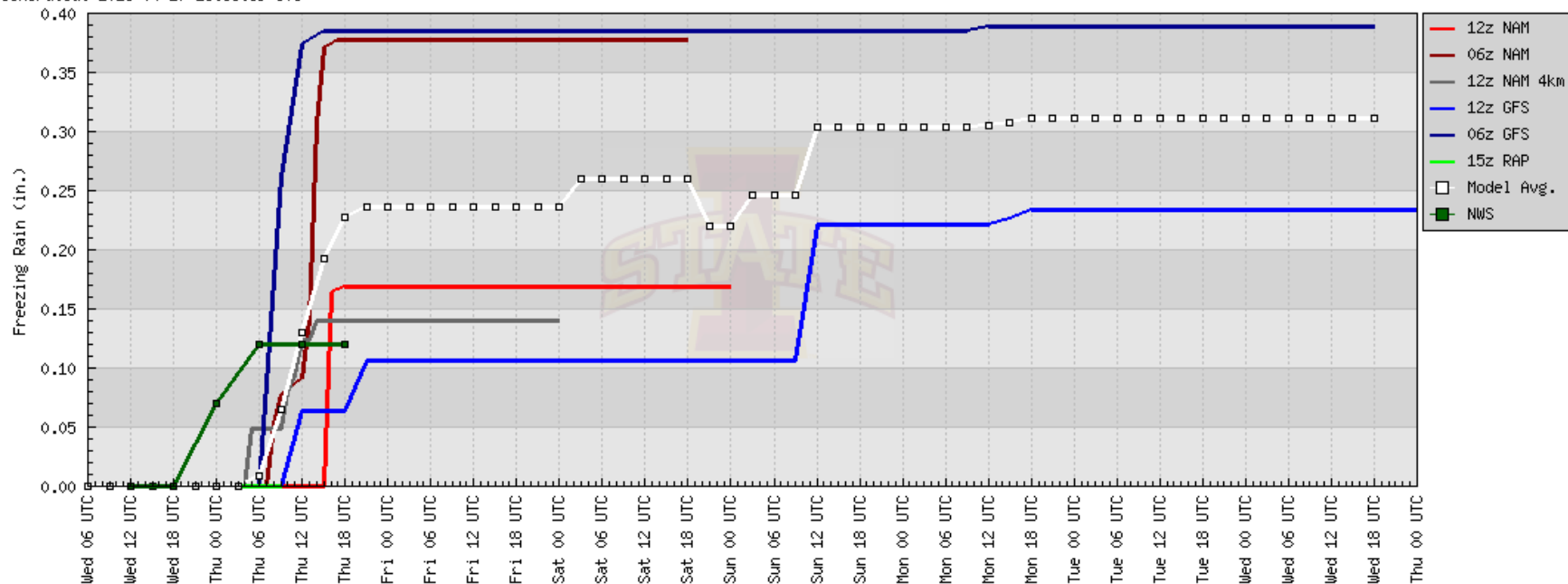


Snowfall forecast model comparison for Hayward, WI

# A Long-lived Winter Storm

Start: 2013-04-17 06:00:00 UTC  
End: 2013-04-25 00:00:00 UTC  
Generated: 2013-04-17 16:33:39 UTC

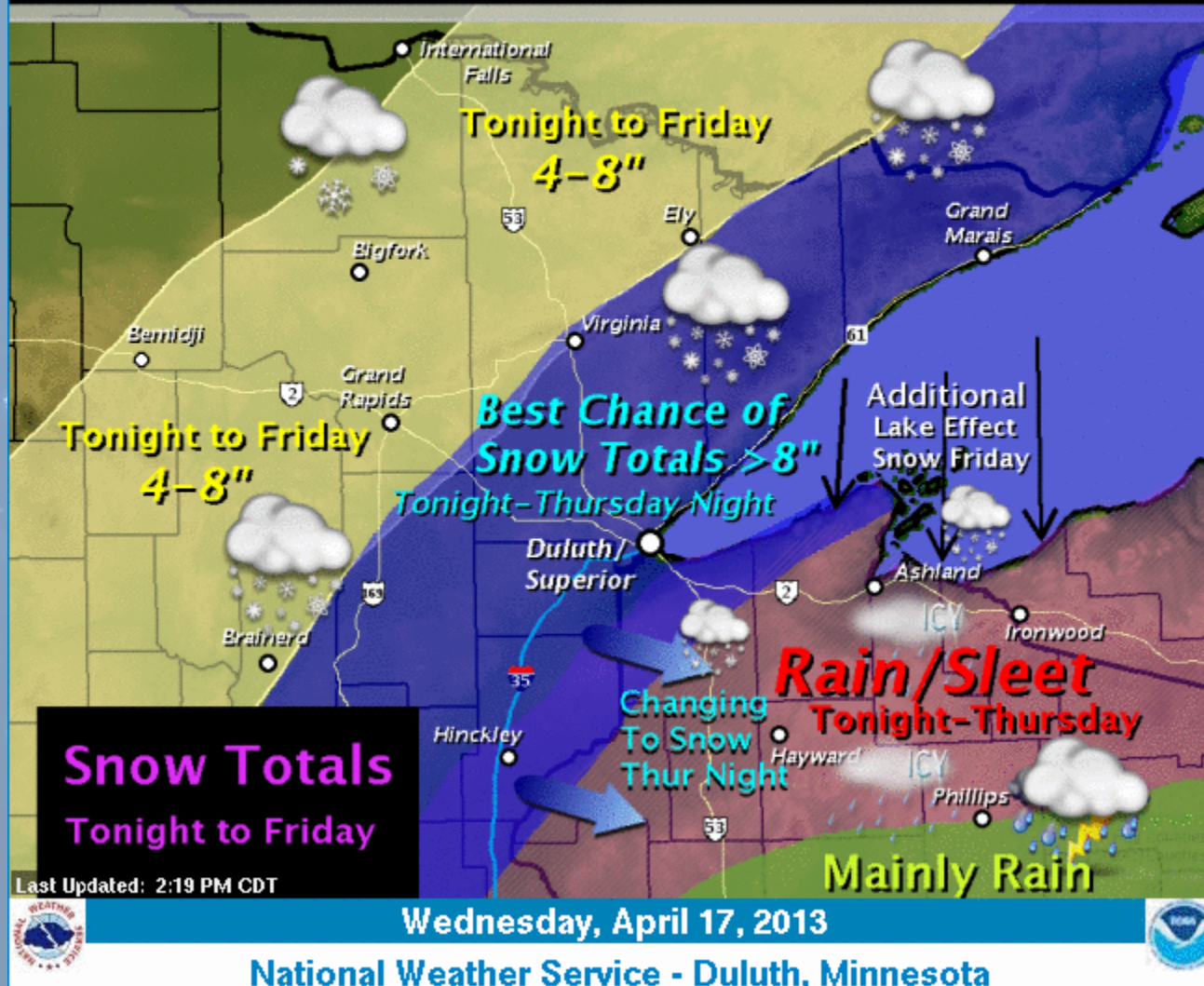
HYR - Hourly Freezing Rain Accumulation Forecast



Ice forecast model comparison for Hayward, WI

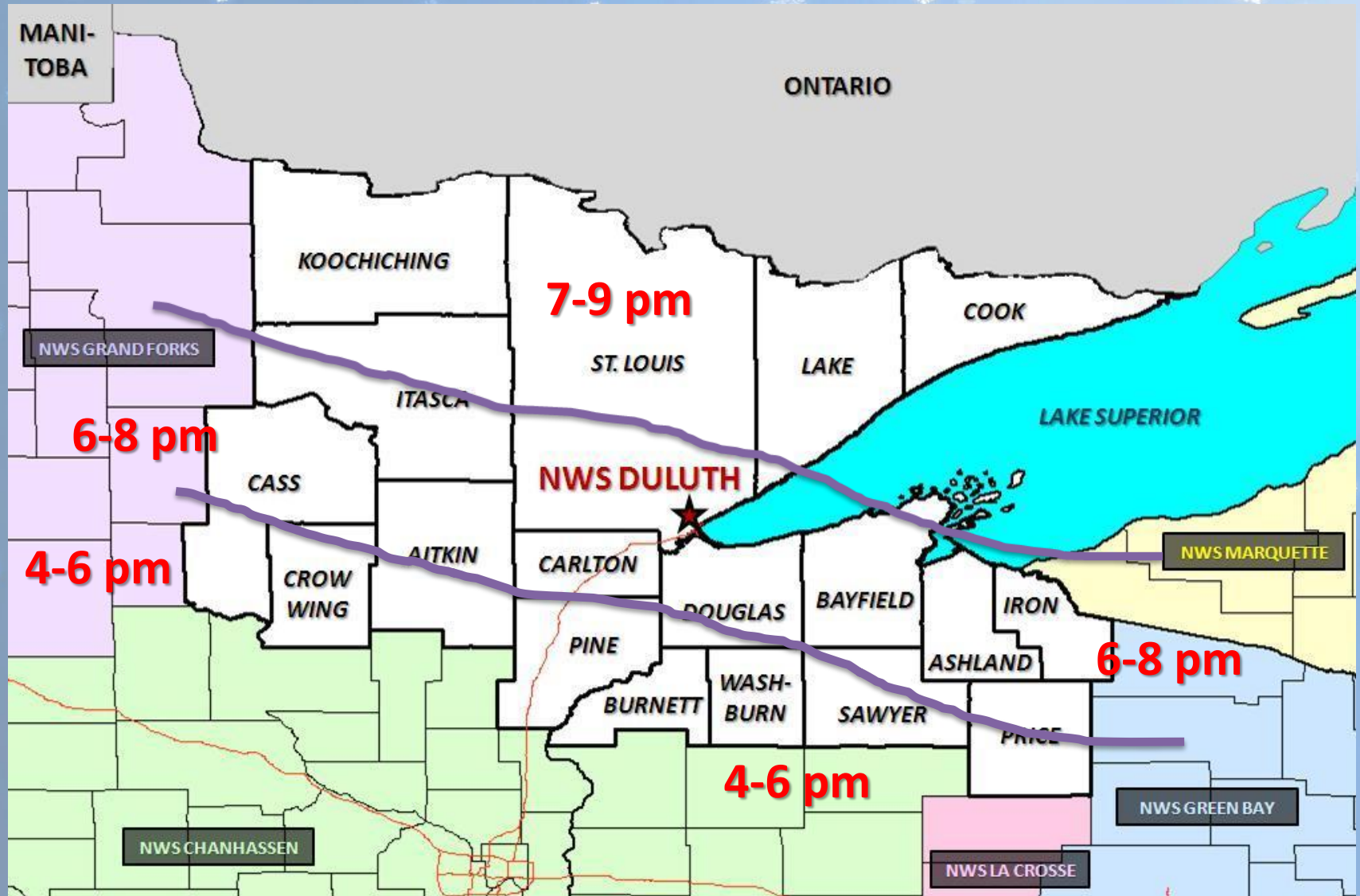
# Forecasted Total Snowfall

**Wintery Weather Through Friday**  
**Precipitation Spreading into Region This Evening**



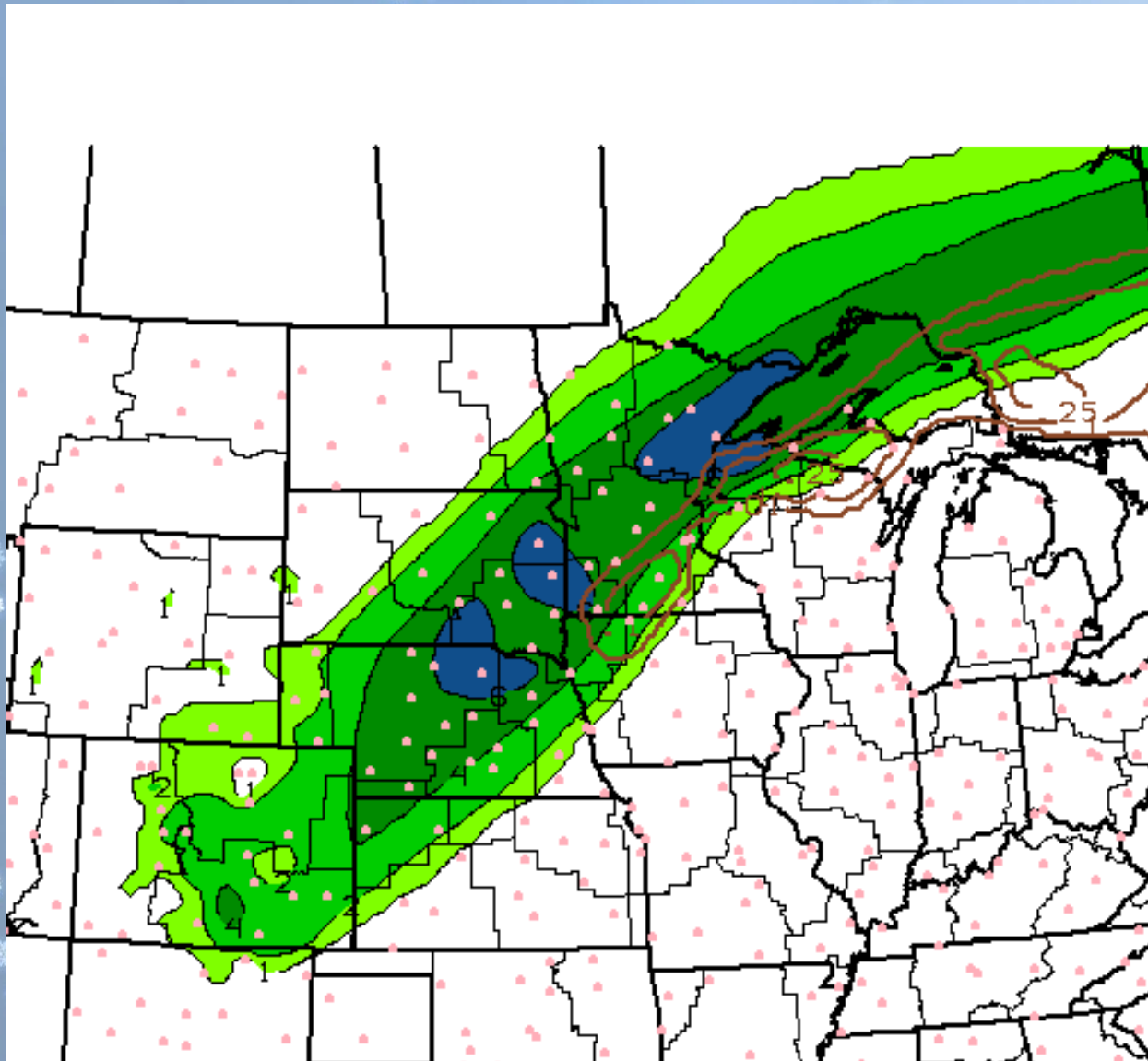


# Beginning Times

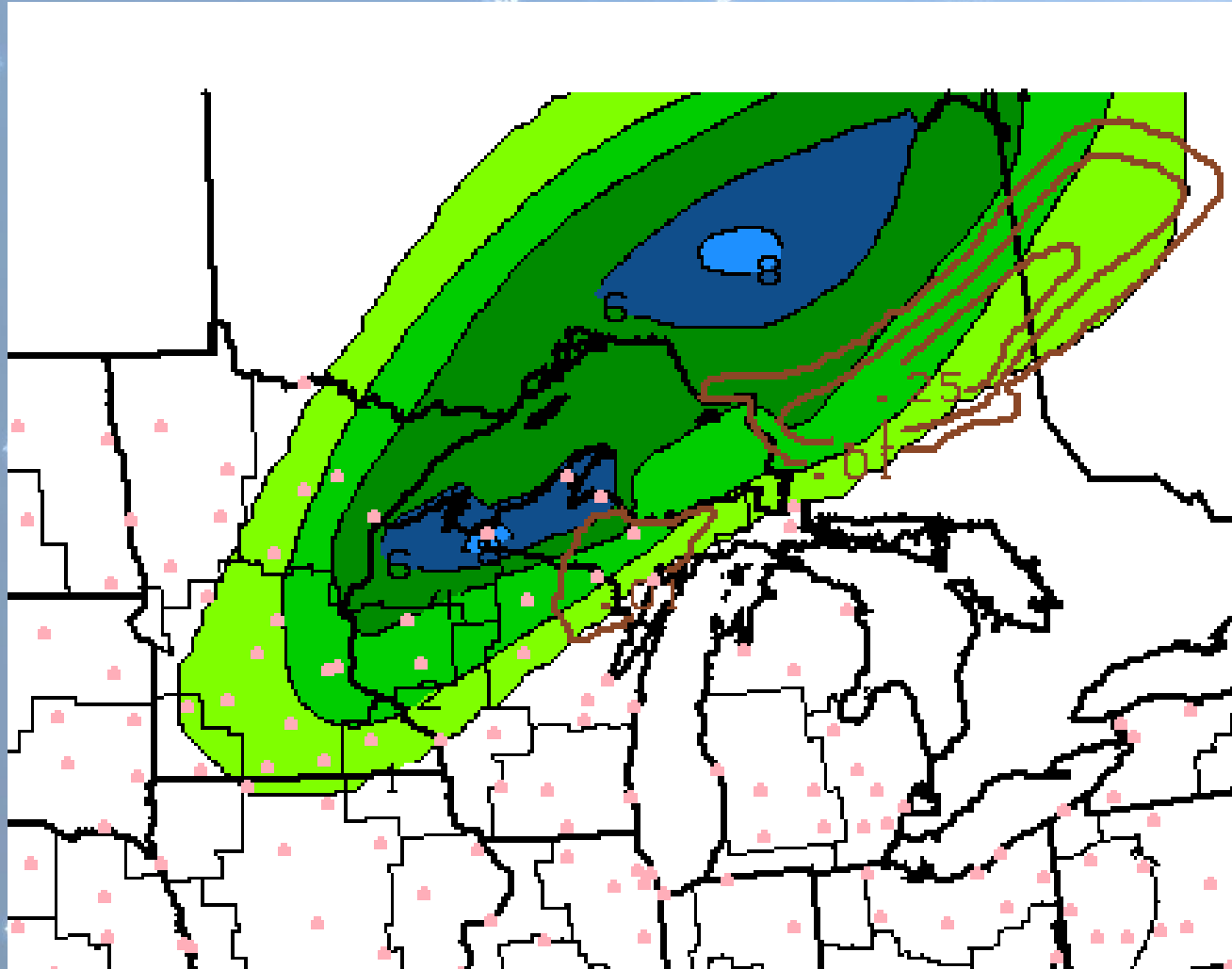


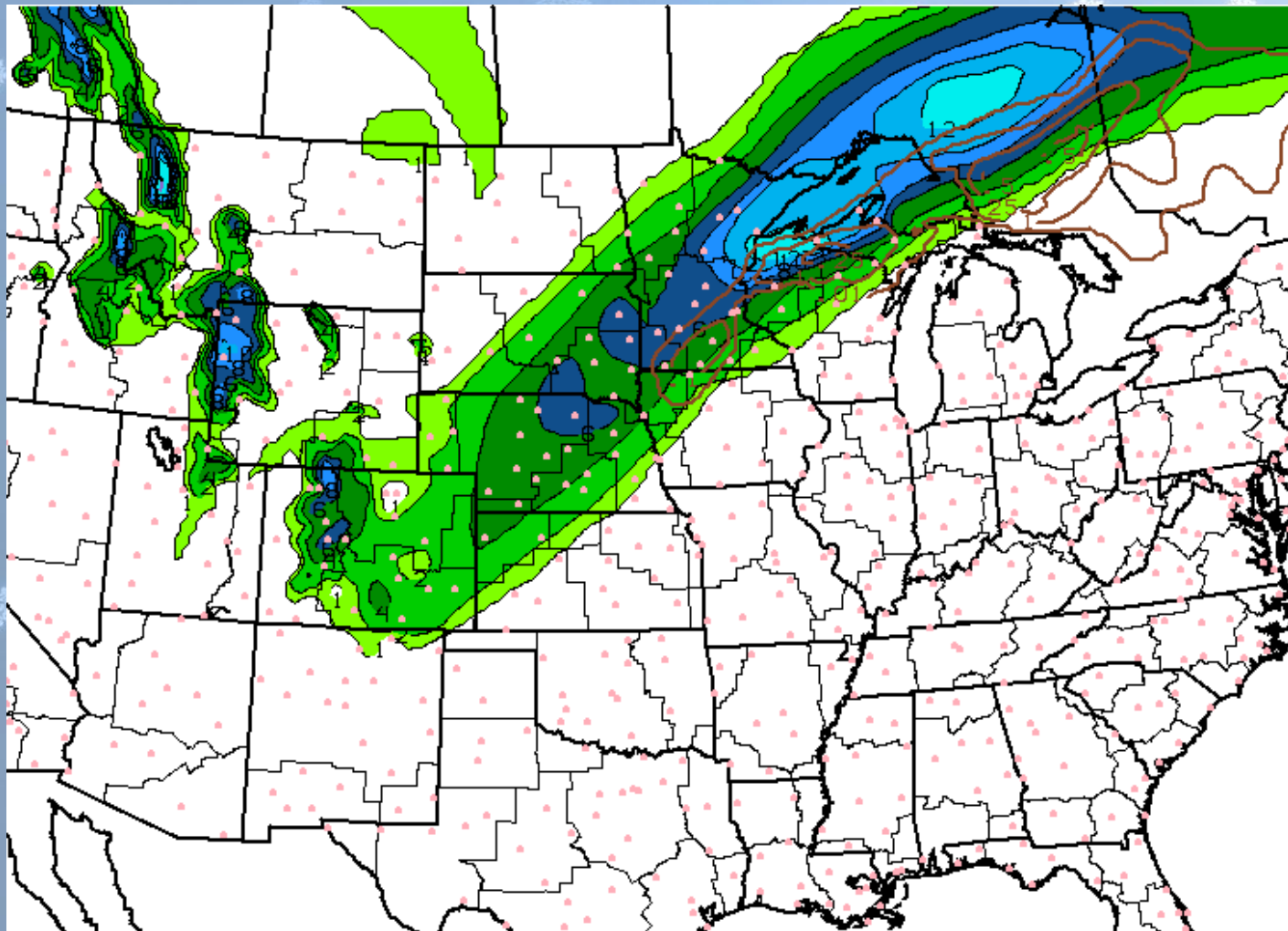


# Snowfall/Ice Through Thursday



# Snowfall Thursday Night/Friday





**3 Day Total through Friday- snow  
contours are shaded colors/ Brown lines  
depict ice**

# Review

- Precipitation type in question-
  - Snow north; rain/freezing rain?/sleet/then snow? south
- Windy Duluth and north shore Wednesday night
  - Northeast gusts to 20 mph
  - Blustery on Thursday- North 20 to 30 mph
- SLIGHT Lull on Thursday
  - Then colder with more snow Thursday night
- Really cold Friday night- in the teens
  - Record low temperatures possible





**Any Questions?**